

Report Date: 22 May 2014

Summary Report for Individual Task
551-88H-1538
Operate ATLAS Rough Terrain Forklift With a Load
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the Fort Lee, VA foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: Assigned as a Forklift Operator given a requirement to operate the All Terrain Lifter Army System (ATLAS) Rough Terrain Forklift with a load in an operational environment, day or night, in normal weather conditions, a completed risk assessment, safety briefing, safety clothing, hearing protection, a (ATLAS) Rough Terrain Forklift, cargo, and references. This task should not be trained in MOPP 4.

Standard: Operate the ATLAS Rough Terrain Forklift with a load without injury to personnel or damage to the cargo in accordance with TM 10-3930-673-10.

Special Condition: None

Safety Risk: Medium

MOPP 4: Never

Task Statements

Cue: You are assigned as a Forklift Operator given a requirement to operate the ATLAS Rough Terrain Forklift with a load.

DANGER

Adhere to all Dangers listed within the lesson plan. Failure to comply with all Dangers within lesson plan may result in damage to equipment and / or injury or loss of life to personal.

WARNING

Adhere to all Warnings listed within the lesson plan. Failure to comply with all Warnings within lesson plan may result in damage to equipment and / or injury or loss of life to personal.

CAUTION

Adhere to all Cautions listed within the lesson plan. Failure to comply with all Cautions within lesson plan may result in damage to equipment and / or injury or loss of life to personal.

Remarks: None

Notes: None

Performance Steps

1. Start the engine (see Figure 3-54).

Note: Prior to this task, all PMCS and safety checks will have been performed.

- a. Adjust operator's seat to your comfort and ensure seat belt is fastened before starting engine.
- b. Engage the parking brake.
- c. Unlock the steering wheel and allow the cable to slowly retract.
- d. Ensure transmission travel lever is in NEUTRAL position.
- e. Depress the accelerator pedal to 1/2 speed.
- f. Turn ignition switch to the ON position and slowly turn the switch to the START position.

CAUTION

Do not operate starter motor for more than 30 seconds. Wait 2 minutes for batteries to recuperate and starter motor to cool to avoid overheating and damage to starter motor.

g. Release the START switch when the engine starts and decrease engine speed to idle, allowing warming of engine oil and hydraulic fluid.

h. Ensure that the auxiliary fuel shut-off switch is in the ON position.

i. Ensure that the emergency steer switch is in the ON position.

CAUTION

If any warning indicators are lit or instrumentation gages have incorrect reading, stop engine immediately and investigate cause.

j. Check all instrumentation gages for normal readings and lack of warning indicators.

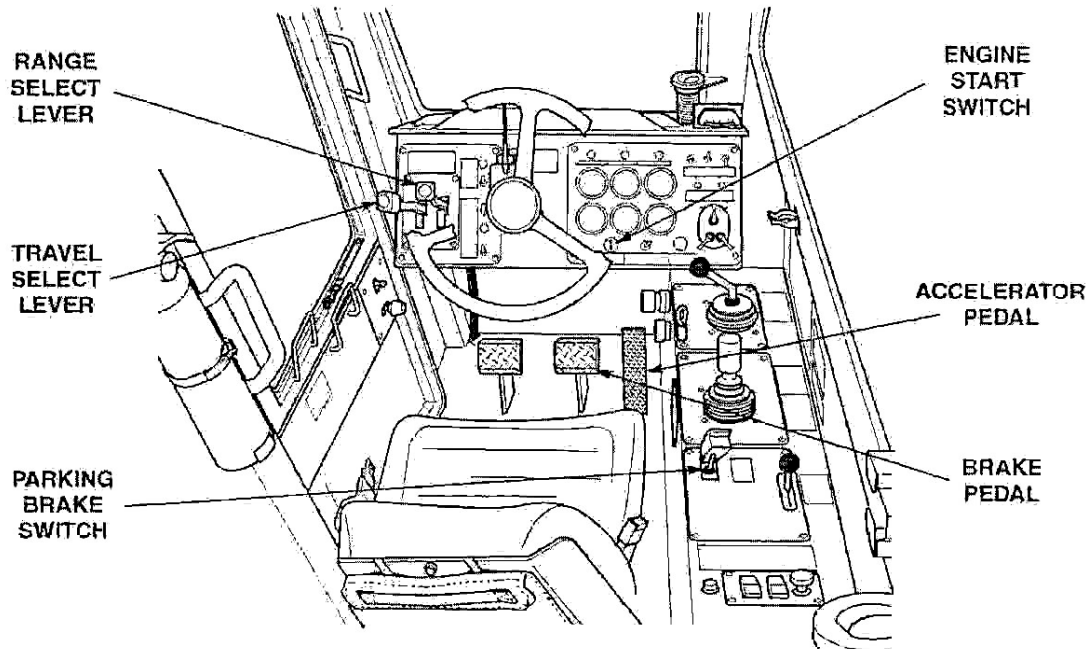


Figure 3-54
Starting the Engine

2. Move the forklift truck.

- a. Depress the service brake and inching pedal to apply the service brakes.
- b. Ensure the forks are in normal carry position at least 24 inches above the ground for maximum stability.

WARNING

Do not travel with the Automatic Fork level switch in the ON position. This could cause a load to be dropped.

- c. Place the travel and range select lever to the desired direction and gear ratio combination.

WARNING

Do not operate with the emergency steer switch OFF. If engine power is lost, there will be a loss of emergency steering capacity. Failure to follow this procedure could result in injury or death to personnel.

- d. Ensure that the emergency steering switch is ON.
- e. Place the PARK BRAKE switch to OFF to release the parking brake.
- f. Move the travel select lever to the Forward (F) position for forward travel, or down to the Reverse (R) position for reverse travel.

CAUTION

Sound vehicle horn to alert personnel of impending movement. Use care when backing up and use a ground guide if your vision is limited. Observe vehicle clearances around and above the vehicle.

g. Release the parking brake and slowly depress the accelerator for movement in desired direction.

3. Steer the forklift.

a. Select desired steering mode:

(1) 4-wheel steer. Move the steer select control switch to the right position. Front wheels will steer in the direction that the steering wheel is turned; while rear wheels will steer in the opposite direction.

(2) 2-wheel steer. Move the steer select control switch to the center position. Front wheels will steer in the direction that the steering wheel is turned; while rear wheels will remain in the fixed forward position.

WARNING

Turn slowly or vehicle could tip or lose the load. This is particularly a concern when in 4-wheel steering mode. Always turn in a lower gear or slower speed.

CAUTION

Before changing steering modes, synchronize steering to avoid mistracking and tire damage. Be aware of fork extension beyond the end of the carriage and check clearances.

(3) Crab steer. Move the steer select control switch to the left position. All wheels will steer in the same direction.

b. Follow Steering System Synchronization procedures to align the front and rear wheels if wheels are not set in the same direction after you change steering modes.

(1) Use steering wheel to put rear wheels in straight ahead direction.

(2) Move the steer select control switch into the two wheel position.

(3) Use steering wheel to adjust front wheels to a straight ahead position.

(4) Move steer select control switch to desired mode to continue operation.

4. Operate forklift with a load (see Figure 3-55).

WARNING

Do not lift more than one pallet with forks. Pallets may topple and result in load or vehicle damage, or injury or death to personnel.

a. Move vehicle to the pallet.

b. Use the hydraulic joystick to position forks at the bottom of the uppermost pallet. Either manually or using the automatic fork level (auto fork level switch in ON position), level the forks and align the forks with the slots in the pallet.

c. Move vehicle or extend the boom to engage the bottom of the pallet with forks.

WARNING

Always retract the boom before lowering or transporting a load. Failure to do so could cause vehicle instability and result in injury or death to personnel.

d. Use the hydraulic joystick to raise the boom and lift the pallet slowly.

WARNING

Do not travel with the automatic fork level switch in the ON position. It is possible to drop a load which could cause load damage, or injury or death to personnel.

e. Use the hydraulic joystick to retract the boom and then lower the pallet to a travel position (approximately two feet above ground level).

f. Move the automatic fork level switch to the OFF position before traveling.

g. Use the electric joystick to raise the fork tips and enable the load to be supported by the carriage. Use care when traveling with a load.

h. Move vehicle to unloading area and in line with unloading area.

i. Move the automatic fork level switch to the ON position. Use the hydraulic and electric joysticks to set load down.

j. Move the automatic fork level switch to the OFF position and use the hydraulic and electric joysticks to remove the weight from forks. Move vehicle slowly away from the pallet.

k. Use the electric joystick to move forks to a carrying position.

l. Repeat steps a through k above for continued operation.

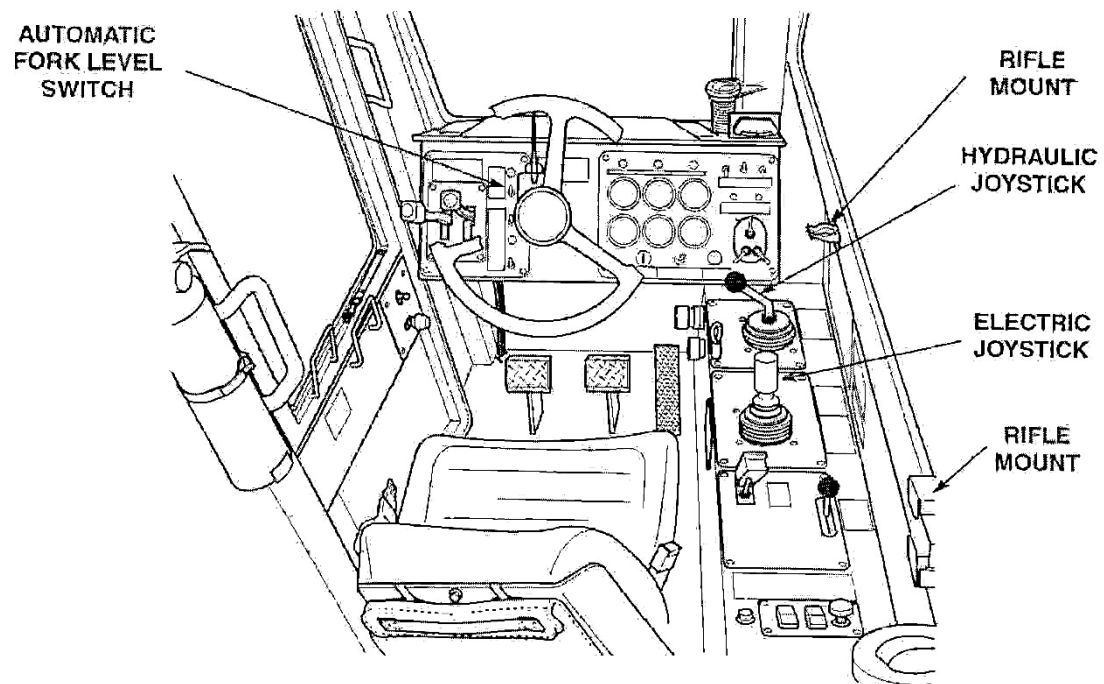


Figure 3-55
Operating Forklift

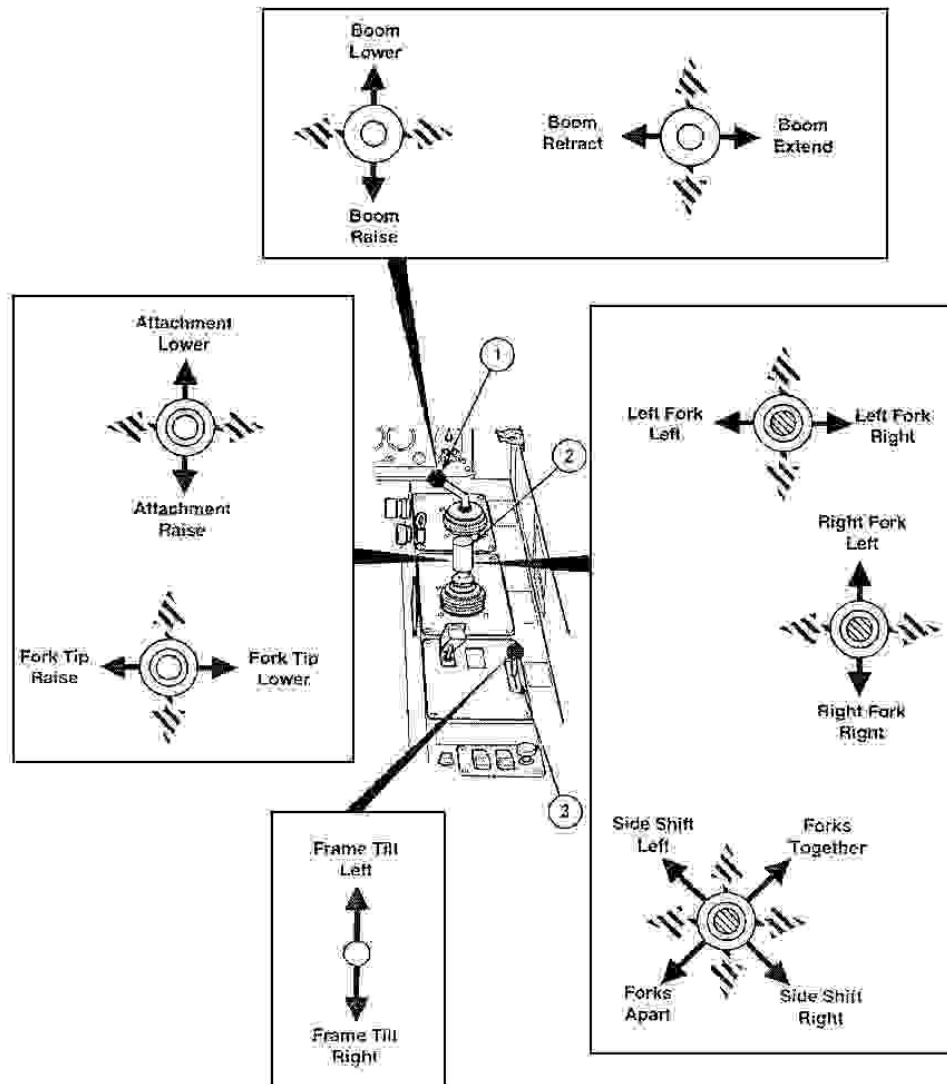


Figure 3-55
Operating Forklift (continued)

5. Stop the forklift.
 - a. Release the accelerator pedal.
 - b. Depress service brake and inching pedal to apply brakes.
 - c. Bring forklift to a complete stop.
 - d. Move travel and range select lever to NEUTRAL position.
 - e. Engage PARK BRAKE switch to ON position.
 - f. Move the hydraulic joystick left to retract the boom and extend the cylinder.
 - g. Push the hydraulic joystick forward to lower the boom until the forks are resting on the ground.
6. Stop the engine.

- a. Turn all lights and accessories off.
- b. Allow engine to idle for three to five minutes.
- c. Turn the ignition switch to the OFF position.
- d. Turn the auxiliary fuel shut-off switch to the OFF position.
- e. Perform after-operations PMCS.
- f. Lock the steering wheel with the steering wheel locking cable and lock.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all performance steps are passed (P). Score the Soldier NO-GO if any performance step is failed (F). If the Soldier fails any step, show what was done wrong and how to do it correctly.

Evaluation Preparation: Ensure that all materials required to perform the task are available. Tell the Soldier that he/she will be evaluated on operating the ATLAS Rough Terrain Forklift with a load.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Started the engine.			
2. Moved the forklift truck.			
3. Steered the forklift.			
4. Operated forklift with a load.			
5. Stopped the forklift.			
6. Stopped the engine.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	TC 21-305-20	Manual for the Wheeled Vehicle Operator {AFMAN 24-306(I)}	Yes	No
	TM 10-3930-673-10	OPERATORS MANUAL FOR ALL TERRAIN LIFTER ARMY SYSTEM (ATLAS) CLEAN BURN DIESEL 10,000 LB CAPACITY MODEL SKYTRAK 10,000M (NSN 3930-01-417-2886)	Yes	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

AR 200-1 delineates TRADOC responsibilities to integrate environmental requirements across DOTMLPF and ensures all training procedures, training manuals, and training doctrine includes sound environmental practices and considerations. The Army's environmental vision is to be a national leader in environmental and natural resource stewardship for present and future generations as an integral part of all Army missions. Environmental protection is never completed. Continuously be alert to ways to protect our environment and reduce waste.

Leaders must ensure that their unit has an active and strong environmental program. They must understand the laws and know what actions to take. Leaders bring focus, direction, and commitment to environmental protection. Commanding officers should ensure the following environmental programs are in place and are being maintained:

- Hazardous materials program.
- Hazardous waste program.
- Hazardous communications program.

- Pollution prevention and hazardous waste minimization recycling program.
- Spill prevention and response plan program.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

All Soldiers and leaders must maintain a proactive posture towards safety in day-to-day operations. The need for total commitment to safety should be evident to commanders, senior Soldiers, and their subordinates. The importance of safety is intensified for personnel conducting Rough Terrain Forklift operations. Safety awareness is most effective at three levels: command, leader, and individual. Observe all Warnings and Cautions and remain aware of the following:

- Hearing protection requirements.
- Danger of suspended loads.

All operations will be performed to protect and preserve Army personnel and property against accidental loss. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful workplaces, procedures, and equipment. Observe all safety and/or environment precautions regarding electricity, cable, and lines. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required IAW AR 385-10, the Clean Air Act (CAA) and the CAA amendments, and the OSHA Hazard Communication standard.

Accidents are an unacceptable impediment to Army missions, readiness, morale, and resources. Decision makers at every level will employ risk management approaches to effectively preclude unacceptable risk to the safety of personnel and property affiliated with this task.

- Take personal responsibility.
- Practice safe operations.
- Recognize unsafe acts and conditions.
- Take action to prevent accidents.
- Report unsafe acts and conditions.
- Work as a team.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
551-88H-1537	Operate ATLAS Rough Terrain Forklift Without a Load	551 - Transportation (Individual)	Superseded

Supported Individual Tasks :

Task Number	Title	Proponent	Status
551-88H-1401	Perform Preventive Maintenance Checks and Services on Material Handling Equipment	551 - Transportation (Individual)	Superseded
551-88H-1527	Communicate with Hand and Arm Signals During MHE Operations	551 - Transportation (Individual)	Approved
551-88H-1401	Perform Preventive Maintenance Checks and Services on Material Handling Equipment	551 - Transportation (Individual)	Approved

Supported Collective Tasks :

Task Number	Title	Proponent	Status
55-3-0014	Transport Palletized Loads of Bottled Water	55 - Transportation (Collective)	Approved
55-3-0012	Transport Palletized Loads of Ammunition	55 - Transportation (Collective)	Approved
55-2-1408	Conduct Cargo Transfer Operations.	55 - Transportation (Collective)	Approved
55-3-0013	Transport Palletized Cargo	55 - Transportation (Collective)	Approved

ICTL Data :

ICTL Title	Personnel Type	MOS Data
MOS 88H - CARGO SPECIALIST SL4	Enlisted	MOS: 88H, Skill Level: SL4, Duty Pos: TGI
MOS 88H - CARGO SPECIALIST SL2	Enlisted	MOS: 88H, Skill Level: SL2, Duty Pos: ABW
MOS 88H - CARGO SPECIALIST SL1	Enlisted	MOS: 88H, Skill Level: SL1, Duty Pos: TAZ
MOS 88H - CARGO SPECIALIST SL3	Enlisted	MOS: 88H, Skill Level: SL3, Duty Pos: TBA